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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete if Known

Application Number	10/627,362
Filing Date	July 25, 2003
First Named Inventor	Ashish Mehta
Art Unit	2122
Examiner Name	Not Yet Assigned
Attorney Docket Number	06005/38043A

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

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NON PATENT LITERATURE DOCUMENTS

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		Examination Report under Section 18(3) issued in GB 0321249.5 application by the United Kingdom Patent Office on July 20, 2005.	

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	11/30/2005
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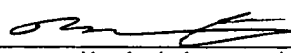
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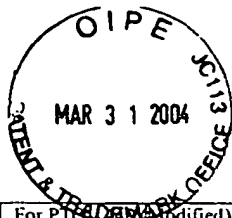
For PTO-1449 (Modified) INFORMATION DISCLOSURE STATEMENT	U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 06005/38043A	Serial No. 10/627,362
	Applicant Wojsznis et al.			
	Filing Date July 25, 2003		Group 2122	

U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue/Publication Date	Name	Class	Subclass	Filing Date if Appropriate
E		US 2002/0103548 A1	Aug. 1, 2002	Treiber et al.			

FOREIGN PATENT DOCUMENTS								
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
E		EP 0 588 594 A3	23.03.94	EP			N/A	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		

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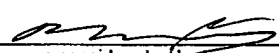
For PTO (Modified) INFORMATION DISCLOSURE STATEMENT	U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 06005/38043A	Serial No. 10/627,362
	Applicant Ashish Mehta et al.			
	Filing Date July 25, 2003		Group 2122	

U.S. PATENT DOCUMENTS							
*Examiner Initials		Patent Number	Issue Date	Name	Class	Subclass	Filing Date if Appropriate
	1	4,054,408	10/18/77	Sheffield et al.	431	12	
	2	4,349,869	09/14/82	Prett et al.	364	159	
	3	4,616,308	10/07/86	Morshedi et al.	364	159	
	4	5,351,184	09/27/94	Lu et al.	364	165	
	5	5,561,599	10/01/96	Lu	364	164	
	6	5,933,345	08/03/99	Martin et al.	364	164	
	7	6,047,221	04/04/00	Piche et al.	700	44	
	8	6,278,899	08/21/01	Piche et al.	700	44	10/06/98
	9	6,445,963 B1	09/03/02	Blevins et al.	700	44	10/04/99
	10	6,487,459	11/26/02	Martin et al.	700	44	02/16/99

FOREIGN PATENT DOCUMENTS							
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation
	11	GB 2 355 545	04-25-2001	United Kingdom			Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	12	Thiele et al., "Configuration and Viewing Display for an Integrated Model Predictive Control and Optimizer Function Block," U.S. Serial No. 10/310,416, filed December 5, 2002.
	13	Qin, S.J. and Badgwell, T.A., "An Overview of Industrial Model Predictive Control Technology," Fifth International Conference on Chemical Process Control; pages 232-256, AIChE and CACHE, 1997.
	14	Jan M. Maciejowski, "Model Predictive Control with Constraints," Pearson Education Limited, Appendix A, Appendix B, 2002.
	15	C. Rao, S. Wright, and J. Rawlings, "Application of Interior-Point Methods to Model Predictive Control," J. Optim. Theory Appl., 99:723-757, 1998.
	16	Willy Wojsznis, Terrence Blevins and Mark Nixon, "Easy Robust Optimal Predictive Controller," Advances in Instrumentation and Control, ISA/2000 Conference, August 2000, New Orleans.
	17	W. Wojsznis, J. Gudaz, A. Mehta, and T. Blevins, "Practical Approach to Tuning MPC," in Proceedings of ISA 2001 Conference, September 10-13, 2001, Houston, TX.
	18	Thiele, D. and Ottenbacher, R., "Simulation of Multivariable Model Predictive Control," in Proceedings of ISA 2001 Conference, Sept. 10-13, 2001, Houston, TX.
	19	"DeltaV Predict and DeltaV PredictPro - Powerful Practical Model Predictive Control," Product data sheet, June 2003.

⑧	20	Dirk Thiele, "Benefits and challenges of implementing model predictive control as a function block," Advances in Instrumentation and Control, ISA/2000 Conference, August 2000, New Orleans.
⑧	21	Garcia, C.E., and A.M. Morshedi, "Quadratic Programming Solution of Dynamic Matrix Control (QDMC)," Chemical Engineering Communications, 46:73-87, 1986.
⑧	22	C.R. Cutler, and B.L. Ramaker, "Dynamic Matrix Control - A Computer Control Algorithm," Proceedings of the Joint Automatic Control Conference, 1980.
⑧	23	Chmelyk, T.T., "An Integrated Approach to Model Predictive Control of an Industrial Lime Kiln," NORPAC Controls Ltd.
⑧	24	MDC Technology, "RTO Technical Presentation."
⑧	25	Dynamic Matrix Control Corporation, "DMC Multivariable Model Predictive Constraint Control."
⑧	26	Garcia, C.E., Pretz, D.M., and Morari, M., "Model Predictive Control: Theory and Practice - a Survey," Automatica, Vol. 25, No. 3, pp. 335-348, 1989.
⑧	27	Froisy, J.B., "Model predictive control: Past, present and future," ISA Transactions 33:235-243, 1994.
⑧	28	Lee, J.H., Morari, M., and Garcia, C.E., "State-space Interpretation of Model Predictive Control," Automatica, Vol. 30, No. 4, pp. 707-717, 1994.
⑧	29	Rawlings, J.B., Muske, K.R., "Model Predictive Control with Linear Models," Process Systems Engineering, Vol. 39, No. 2, February 1993.
⑧	30	Wojsznis, W.K., Wojsznis, P.W., "Robust Predictive Controller in Object-Oriented Implementation," ISA, Paper No. 93-297, pp. 521-528, 1993.
⑧	31	Lee, J.H., Yu, Z.H., "Tuning of Model Predictive Controllers for Robust Performance," Computers in Chemical Engineering, Vol. 18, No. 1, pp.15-37, 1994.
⑧	32	MacArthur, J.W., "RMPCT: A New Robust Approach to Multivariable Predictive Control for the Process Industries," Proceedings of the 1996 Control Systems Conference, Halifax, Canada, 1996.
⑧	33	Shridhar, R., Cooper, D.J., "A Novel Tuning Strategy for Multivariable Model Predictive Control," ISA Transactions, Vol. 36, No. 4, pp. 273-280, 1998.
⑧	34	Babb, Michael, "Fast Computers Open the Way For Advanced Controls," Control Engineering, January 1991.
⑧	35	McDonnell, M., Abu el Ata-Doss, S., "Predictive Functional Control of Multivariable Systems with more Outputs than Inputs," Proceedings 28 CDC, Orlando, Florida, 1989.
⑧	36	Morari, M., Ricker, N.L., and Zafiriou, E., "Model Predictive Control Toolbox," Matlab® User's Guide, Version 1, The Math Works, Inc. 1995.
⑧	37	De Keyser, R.M.C., Van de Velde, Ph.G.A., and Dumortier F.A.G., "A Comparative Study of Self-Adaptive Long-Range Predictive Control Methods," Automatica, Vol. 24, No. 2, pp. 149-163, 1988.
⑧	38	Rumbaugh, J., "Let There Be Objects: A Short Guide to Reification," Journal of Object-Oriented Programming, Vol. 5, No. 7, November/December 1992.
⑧	39	Lynch, P.M., De Paso, J., "An Object Oriented Intelligent Control Architecture," 1992 ACC/TP4, Vol. 3, 92CH3072-6, Chicago.

Examiner	Date Considered
	11/30/2004
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